

ductruong

\*GEOREF - Geological Reference File 1785-present

\* The files listed above are temporarily unavailable.

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CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 10:21:19 ON 25 JAN 2010  
CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

=> s proton conducting polymer membrane#  
1.1 431 PROTON CONDUCTING POLYMER MEMBRANE#

=> s 11 and sulfonated polymer# and benzimidazole#  
4 FILES SEARCHED

> > 1,3-dihydropyridine, compound #, and an aromatic sulfonated polymer# and benzene.

5 12 and aromatic tetraamine compound# and aromatic carbon  
5 FILES SEARCHED

L3 5 L2 AND AROMATIC TETRAAMINO COMPOUND# AND AROMATIC CARBOXYLIC ACID#

4 FILES SEARCHED...  
5 FILES SEARCHED...

L4 5 L3 AND INERT GAS? AND TEMPERATURE#

=> d 14 1-5

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L4 ANSWER 1 OF 5 EPFULL COPYRIGHT 2010 EPO/FIZ KA/LNU on STN

AN 2003:70266 EPFULL  
DUPD 20040310 DUPW 200411

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.  
TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.  
TIDE PROTONENLEITENDE MEMBRAN UND DEREN VERWENDUNG.

IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;  
SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;  
UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;  
KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Celanese Ventures GmbH, (Ventures GmbH, Celanese), , 65926 Frankfurt am Main, DE

PAN 3179301

DT Patent

LAF German

LA German

LAP German

TL German; English; French

PIT WO A1 International application published with search report

PI WO 2004003061 A1 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL  
EXTENSION STATES: AL LT LV MK

AI EP 2003-740253 A 20030614  
WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627

IC.VER 7

ICM C08J005-00

ICS C08J005-22; H01M008-10; H01M004-00; C08G073-00

AN 2003:70266 EPFULL ED 20050406 UP 20060223  
DUPD 20060208 DUPW 200606

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.  
TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.  
TIDE PROTONENLEITENDE MEMBRAN UND DEREN VERWENDUNG.

IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;  
SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;  
UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;  
KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Pemeas GmbH, 65926 Frankfurt am Main, DE

PAN 4944860

AG Luderschmidt, Schueler & Partner GbR, Patentanwaelte, Industriepark Hoechst, Geb. F821, 65926 Frankfurt am Main, DE

AGN 101418

DT Patent

LAF German

LA German

LAP German

TL German; English; French

PIT EPA1 Application published with search report

PI EP 1519981 A1 20050406  
WO 2004003061 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE  
SI SK TR

AI EP 2003-740253 A 20030614  
WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627

IPCI C08J0005-00 [I,A ]; C08J0005-22 [I,A ]; H01M0008-10 [I,A ];

ductruong

H01M0004-00 [I,A]; C08G0073-00 [I,A]  
C08J0005-00 [I,C\*]; C08J0005-20 [I,C\*]; H01M0008-10 [I,C\*];  
H01M0004-00 [I,C\*]; C08G0073-00 [I,C\*]

AN 2003:70266 EPFULL ED 20060629 UP 20091021  
DUPD 20091021 DUPW 200943

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.  
TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.  
TIDE PROTOMENLEITENDE MEMBRAN UND DEREN VERWENDUNG.

IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;  
SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;  
UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;  
KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Pemeas GmbH, 65926 Frankfurt am Main, DE  
PAN 4944860

AG Luderschmidt, Schueler & Partner, Patentanwaelte Industriepark Hoechst,  
Gebaeude F 821, 65926 Frankfurt, DE

AGN 101414  
DT Patent  
LAF German  
LA German  
LAP German  
TL German; English; French  
PIT EPB1 Granted patent  
PI EP 1519981 B1 20060628  
WO 2004003061 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE  
SI SK TR

AI EP 2003-740253 A 20030614  
WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627

REP US 3313783 A (INID56)  
US 5218076 A (INID56)  
US 5525436 A (INID56)

REN (1) OSAHENI J A ET AL: "SYNTHESIS AND PROCESSING OF HETEROCYCLIC POLYMERS AS ELECTRONIC, OPTOELECTRONIC, AND NONLINEAR OPTICAL MATERIALS. 4 NEW CONJUGATED RIGID-ROD POLY(BENZOBIS(IMIDAZOLE)S" MACROMOLECULES, AMERICAN CHEMICAL SOCIETY. EASTON, US, Bd. 28, Nr. 4, 13. Februar 1995 (1995-02-13), Seiten 1172-1179, XP000490475 ISSN: 0024-9297 (INID56)

IPCI C08J0005-00 [I,A]; C08J0005-22 [I,A]; H01M0008-10 [I,A];  
H01M0004-00 [I,A]; C08G0073-00 [I,A]  
C08J0005-00 [I,C\*]; C08J0005-20 [I,C\*]; H01M0008-10 [I,C\*];  
H01M0004-00 [I,C\*]; C08G0073-00 [I,C\*]

L4 ANSWER 2 OF 5 USPATFULL on STN  
AN 2007:62900 USPATFULL  
TI Proton-conducting polymer membrane containing polymers with sulfonic acid groups that are covalently bonded to aromatic groups, membrane electrode unit, and use thereof in fuel cells  
IN Kiefer, Joachi, Losheim am See, GERMANY, FEDERAL REPUBLIC OF Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
PA PEMEAS GMBH, FRANKFURT, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)  
PI US 20070055045 A1 20070308  
AI US 2004-570637 A1 20040904 (10)  
WO 2004-EP9900 20040904  
20060303 PCT 371 date  
PRAI DE 2003-10340927 20030904

ductruong

DT Utility  
FS APPLICATION  
LN.CNT 1474  
INCL INCLM: 528/373.000  
NCL NCLM: 528/373.000  
IC IPCI C08G0075-00 [I,A]  
IPCR C08G0075-00 [I,C]; C08G0075-00 [I,A]; C08J0005-20 [I,C\*];  
C08J0005-22 [I,A]; H01M0004-86 [N,C\*]; H01M0004-86 [N,A];  
H01M0004-90 [N,C\*]; H01M0004-92 [N,A]; H01M0008-10 [I,C\*];  
H01M0008-10 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 5 USPATFULL on STN  
AN 2006:67231 USPATFULL  
TI Proton-conducting membrane and the use thereof  
IN Calundann, Gordon, North Plainfield, NJ, UNITED STATES  
Sansone, Michael J, Berkeley Heights, NJ, UNITED STATES  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF  
PI US 20060057449 A1 20060316  
AI US 2003-519281 A1 20030614 (10)  
WO 2003-EP6308 20030614  
20050804 PCT 371 date  
PRAI DE 2002-10228657 20020627  
DT Utility  
FS APPLICATION  
LN.CNT 976  
INCL INCLM: 429/033.000  
INCLS: 521/027.000; 429/314.000  
NCL NCLM: 429/033.000  
NCLS: 429/314.000; 521/027.000  
IC IPCI C08J0005-22 [I,A]; C08J0005-20 [I,C\*]; H01M0008-10 [I,A]  
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0071-00 [I,C\*];  
B01D0071-62 [I,A]; B01D0071-82 [I,A]; C08G0073-00 [I,C\*];  
C08G0073-06 [I,A]; C08G0073-08 [I,A]; C08G0073-18 [I,A];  
C08G0073-22 [I,A]; H01M0008-10 [I,C]; H01M0008-10 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 5 USPATFULL on STN  
AN 2005:280748 USPATFULL  
TI Proton-conducting polymer membrane  
comprising a polymer with sulphonic acid groups and use thereof in fuel  
cells  
IN Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Calundann, Gordon, North Plainfield, NJ, UNITED STATES  
PI US 20050244695 A1 20051103  
US 7332530 B2 20080219  
AI US 2003-523373 A1 20030731 (10)  
WO 2003-EP8462 20030731  
20050323 PCT 371 date  
PRAI DE 2002-10235356 20020802  
DE 2003-10235357 20020802  
DT Utility  
FS APPLICATION  
LN.CNT 1441  
INCL INCLM: 429/033.000  
INCLS: 521/027.000  
NCL NCLM: 521/027.000; 429/033.000

ductruong

IC NCLS: 429/030.000; 429/033.000; 521/030.000; 526/286.000  
[7]  
ICM H01M008-10  
ICS C08J005-22  
IPCI H01M0008-10 [ICM, 7]; C08J0005-22 [ICS, 7]; C08J0005-20 [ICS, 7,C\*]  
IPCI-2 C08J0005-22 [I,A]; C08J0005-20 [I,C\*]; H01M0008-10 [I,A]  
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0067-00 [I,C\*];  
B01D0067-00 [I,A]; B01D0069-00 [I,C\*]; B01D0069-14 [I,A];  
B01D0071-00 [I,C\*]; B01D0071-62 [I,A]; B01D0071-64 [I,A];  
B01D0071-72 [I,A]; C08G0061-00 [I,C\*]; C08G0061-12 [I,A];  
C08G0073-00 [I,C\*]; C08G0073-06 [I,A]; C08G0073-08 [I,A];  
C08G0073-10 [I,A]; C08G0073-18 [I,A]; C08G0073-22 [I,A];  
C08G0079-00 [I,C\*]; C08G0079-04 [I,A]; H01M0008-10 [I,C];  
H01M0008-10 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 5 USPAT2 on STN  
AN 2005:280748 USPAT2  
TI Proton-conducting polymer membrane  
comprising a polymer with sulphonic acid groups and use thereof in fuel  
cells  
IN Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Calundann, Gordon, North Plainfield, NJ, UNITED STATES  
PA Celanese Ventures GmbH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF  
(non-U.S. corporation)  
PI US 7332530 B2 20080219  
WO 2004015803 20040219  
AI US 2003-523373 20030731 (10)  
WO 2003-EP8462 20030731  
20050323 PCT 371 date  
PRAI DE 2002-10235356 20020802  
DE 2002-10235357 20020802  
DT Utility  
FS GRANTED  
LN.CNT 1491  
INCL INCLM: 521/027.000  
INCLS: 521/030.000; 429/030.000; 429/033.000; 526/286.000  
NCL NCLM: 521/027.000; 429/033.000  
NCLS: 429/030.000; 429/033.000; 521/030.000; 526/286.000  
IC IPCI H01M0008-10 [ICM, 7]; C08J0005-22 [ICS, 7]; C08J0005-20 [ICS, 7,C\*]  
IPCI-2 C08J0005-22 [I,A]; C08J0005-20 [I,C\*]; H01M0008-10 [I,A]  
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0067-00 [I,C\*];  
B01D0067-00 [I,A]; B01D0069-00 [I,C\*]; B01D0069-14 [I,A];  
B01D0071-00 [I,C\*]; B01D0071-62 [I,A]; B01D0071-64 [I,A];  
B01D0071-72 [I,A]; C08G0061-00 [I,C\*]; C08G0061-12 [I,A];  
C08G0073-00 [I,C\*]; C08G0073-06 [I,A]; C08G0073-08 [I,A];  
C08G0073-10 [I,A]; C08G0073-18 [I,A]; C08G0073-22 [I,A];  
C08G0079-00 [I,C\*]; C08G0079-04 [I,A]; H01M0008-10 [I,C];  
H01M0008-10 [I,A]  
EXF 521/27; 521/30; 429/33; 429/30; 526/286  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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